	Application No.	Applicant(s)
Notice of Allowability	10/620,074	PATEL ET AL.
	Examiner	Art Unit
	Alexander O. Williams	2826
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. This communication is responsive to the Amendment filed 12/14/04.		
2. The allowed claim(s) is/are 2-5, 8, 16-22; renumbered 1-4, 5, 6-12 respectively.		
3. The drawings filed on <u>03 September 2004</u> are accepted by the Examiner.		
 4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
ldentifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary	
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No./Mail Dat 8), 7. ⊠ Examiner's Amendn	
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's Stateme 9. □ Other	nt of Reasons for Allowance
·		ALEXANDER O. WILLIAMS PRIMARY FYAMINIES

Application/Control Number: 10/620,074

Art Unit: 2826

Applicant's Amendment (filed 12/14/05) is acknowledged.
Claims 2 to 5, 8 and 16 to 22 are allowable over the prior art of record.
Claims 1, 6, 7, 9 have been cancelled.

Part III EXAMINER'S AMENDMENT

1. An Examiner's Amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 C.F.R. 3 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the Issue Fee.

Note: Applicant's Remarks/Arguments filed 12/14/04 states that claims 10-15 is withdrawn without prejudice, despite the previous election response with traverse of claims 10-15.

The application has been amended as follows:
 Cancel now without traverse claims 10-15.

REASON FOR ALLOWANCE

3. The following is an Examiner's Statement of Reasons for Allowance:

As to independent claims 2, 16 and 22, the prior art of record fails to show the combination recited in any of the claims. In particular, the prior art of record fails to show or collectively teach the substrate including at least one electrical ground plane with the vias connected to the outermost row of thermal solder balls at the periphery of the substrate and the heat spreader mounted on the package with conductive mounting pegs. Applicant's arguments provide reason for allowance.

Any comments considered necessary by applicant must be submitted no later than the payment of the Issue Fee and, to avoid processing delays, should preferably accompany the Issue Fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexander O. Williams whose-telephone number is (571) 272 1924. The examiner can normally be reached on M-F 6:30-7:00PM.

Application/Control Number: 10/620,074 Page 3

Art Unit: 2826

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on (571) 272 1915. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Alexander O Williams Primary Examiner Art Unit 2826

AOW 3/12/05